

CLAIM AMENDMENTS

1. (currently amended) A dual-function treading exerciser comprising:

a lower body exerciser and an upper body exerciser, said upper body exerciser

including:

a frame joined to the lower body exerciser; and

a movable handle assembly including a pair of pulling devices mounted on said

frame, and a rotary shaft journaled on said frame, each of said pulling

devices including, a pulley disposed on said frame, a pull cord wound on

said pulley, a handgrip fastened to an end of said pull cord and movable

rearwardly to unwind said pull cord from said pulley, and a biasing unit

for biasing said pull cord to wind around said pulley when said cord is

pulled rearwardly and is subsequently released;

a flywheel assembly mounted on said rotary shaft, said flywheel assembly including a

flywheel and a pair of magnetically conductive rings disposed respectively and

on opposite sides of said flywheel;

a unidirectional bearing disposed between said rotary shaft and each of said pulleys so as

to rotate said rotary shaft synchronously with said pulleys only when said pulleys

rotate in a direction in which said pull cords are unwound from said pulleys; and,

a magnetic resistance device disposed adjacent to said flywheel assembly so as to

provide resistance to rotation of said flywheel assembly.

2. (original) The dual-function exerciser of claim 1, wherein said lower body exerciser comprises:

a treading platform; and

a continuous tread extending around said platform.
3. (original) The dual-function exerciser of claim 1, wherein said movable handle assembly is joined to a front portion of said frame.
4. (original) The dual-function exerciser of claim 1, wherein said frame extends upwardly from a front portion of said dual-function exerciser.
5. (original) The dual-function exerciser of claim 1, wherein said frame extends upwardly from a front portion of said dual-function exerciser, and said movable handle assembly is joined to an upper portion of said frame.
6. (original) The dual-function exerciser of claim 1, and further comprising fixed handles, and wherein said movable handle assembly is disposed substantially higher than said fixed handles.
7. (original) The dual-function exerciser of claim 1, wherein said biasing unit of each of said pulling devices includes a spring member biased to rotate in a predetermined direction.

8. (original) The dual-function exerciser of claim 7, wherein said spring member is a spiral spring that is fastened to a housing at one end and to the respective one of said pulleys at the other end.

9. (cancelled)

10. (currently amended) The dual-function treading exerciser of claim 9¹, wherein ~~said flywheel assembly includes a flywheel, and a pair of magnetically conductive rings disposed respectively and on opposite sides of said flywheel, said adjustable magnetic resistance device includes~~including:

a positioning seat fixed on said frame and having two spaced-apart parallel sliding rails;

~~a threaded shaft journalled on said positioning seat and having an externally threaded portion; and~~

a magnet seat including a U-shaped body ~~and two spaced-apart parallel sliding plates that are connected to said U-shaped body and that are disposed respectively and slidably along said sliding rails~~, said body having two opposite side walls which are provided respectively with two aligned magnet units, between which said flywheel assembly is disposed, and a connecting wall which interconnects said side walls and which is formed with a threaded hole that engages said threaded shaft so as to move said U-shaped body toward and away from said flywheel when said threaded shaft is rotated relative to said positioning seat, thereby adjusting magnitude of the resistance.

11. (original) The dual-function treading exerciser of claim 10, wherein said magnetic resistance device further includes:

a motor disposed on said frame and provided with a motor shaft; and

a gear sleeved on said motor shaft and engaging said externally

threaded portion of said threaded shaft so as to transfer rotation of said motor shaft to said threaded shaft.

12. (currently amended) A dual-function treading exerciser comprising:

a lower body exerciser and an upper body exerciser, said upper body exerciser including;

a frame joined to the lower body exerciser; and

a movable handle assembly including a pair of pulling devices mounted on said frame,

and a rotary shaft journaled on said frame, each of said pulling devices

including, a chamber, a pulley disposed in said chamber, a pull cord wound on

said pulley, a handgrip fastened to an end of said pull cord and movable

rearwardly to unwind said pull cord from said pulley, and a biasing unit for

biasing said pull cord to wind around said pulley when said cord is pulled

rearwardly and is subsequently released;

a flywheel assembly mounted on said rotary shaft, said flywheel assembly including a

flywheel, and a pair of magnetically conductive rings disposed respectively and

on opposite sides of said flywheel;

a unidirectional bearing disposed between said rotary shaft and each of said pulleys so as to rotate said rotary shaft synchronously with said pulleys only when said pulleys rotate in a direction, in which said pull cords are unwound from said pulleys; and, a magnetic resistance device disposed adjacent to said flywheel assembly so as to provide resistance to rotation of said flywheel assembly.

13. (original) The dual-function exerciser of claim 12, wherein said lower body exerciser comprises:

a treading platform; and

a continuous tread extending around said platform.

14. (original) The dual-function exerciser of claim 12, wherein said movable handle assembly is joined to a front portion of said frame.

15. (original) The dual-function exerciser of claim 12, wherein said frame extends upwardly from a front portion of said dual-function exerciser.

16. (original) The dual-function exerciser of claim 12, wherein said frame extends upwardly from a front portion of said dual-function exerciser, and said movable handle assembly is joined to an upper portion of said frame.

17. (original) The dual-function exerciser of claim 12, and further comprising fixed handles, and wherein said movable handle assembly is disposed substantially higher than said fixed handles.

18. (original) The dual-function exerciser of claim 12, wherein said biasing unit of each of said pulling devices includes a spring member biased to rotate in said chamber in a predetermined direction.

19. (original) The dual-function exerciser of claim 18, wherein said spring member is a spiral spring that is fastened to a housing at one end and to the respective one of said pulleys at the other end.

20. (cancelled)

21. (currently amended) The dual-function treading exerciser of claim ~~20~~12, wherein ~~said flywheel~~
~~assembly includes a flywheel, and a pair of magnetically conductive rings disposed respectively~~
~~and on opposite sides of said flywheel, said adjustable magnetic resistance device~~
includes including:

a positioning seat fixed on said frame and having two spaced-apart parallel
sliding rails;

~~a threaded shaft journaled on said positioning seat and having an externally~~
~~threaded portion; and~~

a magnet seat including a U-shaped body ~~and two spaced apart parallel sliding~~

~~plates that are connected to said U-shaped body and that are~~

~~disposed respectively and slidably along said sliding rails, said body~~

having two opposite side walls which are provided respectively with

two aligned magnet units, between which said flywheel assembly is

disposed, and a connecting wall which interconnects said side walls

and which is formed with a threaded hole that engages said

threaded shaft so as to move said U-shaped body toward and away from

said flywheel when said threaded shaft is rotated relative to said

positioning seat, thereby adjusting magnitude of the resistance.

22. (original) The dual-function treading exerciser of claim 21, wherein said magnetic resistance device further includes:

a motor disposed on said frame and provided with a motor shaft; and

a gear sleeved on said motor shaft and engaging said externally

threaded portion of said threaded shaft so as to transfer rotation of said motor shaft to said threaded shaft.

23. (currently amended) A dual-function treading exerciser comprising:

a lower body exerciser and an upper body exerciser, said upper body exerciser

including;

a frame joined to the lower body exerciser; and

a movable handle assembly including a pair of pulling devices mounted on said frame to operate independently of one another to enable a plurality of upper body exercises, and a rotary shaft journalled on said frame, each of said pulling devices including, a pulley disposed on said frame, a pull cord wound on said pulley, a handgrip fastened to an end of said pull cord and movable rearwardly to unwind said pull cord from said pulley, and a biasing unit for biasing said pull cord to wind around said pulley when said cord is pulled rearwardly and is subsequently released;

a flywheel assembly mounted on said rotary shaft, said flywheel assembly including a flywheel, and a pair of magnetically conductive rings disposed respectively and on opposite sides of said flywheel; and,

a unidirectional bearing disposed between said rotary shaft and each of said pulleys so as to rotate said rotary shaft synchronously with said pulleys only when said pulleys rotate in a direction, in which said pull cords are unwound from said pulleys.

24. (original) The dual-function exerciser of claim 23, wherein said lower body exerciser comprises:

a treading platform; and

a continuous tread extending around said platform.

25. (original) The dual-function exerciser of claim 23, wherein said movable handle assembly is joined to a front portion of said frame.

26. (original) The dual-function exerciser of claim 23, wherein said frame extends upwardly from a front portion of said dual-function exerciser.

27. (original) The dual-function exerciser of claim 23, wherein said frame extends upwardly from a front portion of said dual-function exerciser, and said movable handle assembly is joined to an upper portion of said frame.

28. (original) The dual-function exerciser of claim 23, and further comprising fixed handles, and wherein said movable handle assembly is disposed substantially higher than said fixed handles.

29. (original) The dual-function exerciser of claim 23, wherein said biasing unit of each of said pulling devices includes a spring member biased to rotate in a predetermined direction.

30. (original) The dual-function exerciser of claim 29, wherein said spring member is a spiral spring that is fastened to a housing at one end and to the respective one of said pulleys at the other end

31. (currently amended) The dual-function treading exerciser of claim 23, wherein said movable handle assembly further includes:

~~a flywheel assembly mounted on said rotary shaft;~~

~~a unidirectional bearing disposed between said rotary shaft and each of said~~

~~_____ pulleys so as to rotate said rotary shaft synchronously with said pulleys~~
~~_____ only when said pulleys rotate in a direction, in which said pull cords are~~
~~_____ unwound from said pulleys; and~~
an adjustable magnetic resistance device disposed adjacent to said flywheel
assembly so as to provide resistance to rotation of said flywheel
assembly.

32. (currently amended) The dual-function treading exerciser of claim 31, wherein said flywheel assembly includes a flywheel, and a pair of magnetically conductive rings disposed respectively and on opposite sides of said flywheel, said adjustable magnetic resistance device ~~including~~includes:

a positioning seat fixed on said frame and having two spaced-apart parallel
sliding rails;

~~_____ a threaded shaft journaled on said positioning seat and having an externally~~
~~_____ threaded portion; and~~

a magnet seat including a U-shaped body and two spaced-apart parallel sliding
~~_____ plates that are connected to said U-shaped body and that are~~
~~_____ disposed respectively and slidably along said sliding rails, said body~~
having two opposite side walls which are provided respectively with
two aligned magnet units, between which said flywheel assembly is
disposed, and a connecting wall which interconnects said side walls
and which is formed with a threaded hole that engages said

threaded shaft so as to move said U-shaped body toward and away from said flywheel when said threaded shaft is rotated relative to said positioning seat, thereby adjusting magnitude of the resistance.

33. (original) The dual-function treading exerciser of claim 32, wherein said magnetic resistance device further includes:

a motor disposed on said frame and provided with a motor shaft; and

a gear sleeved on said motor shaft and engaging said externally

threaded portion of said threaded shaft so as to transfer rotation of said motor shaft to said threaded shaft.